



2005\_1843A 8.31.2006 rev seq listing  
SEQUENCE LISTING

<110> Japan Science and Technology Corporation  
UMEZAWA, Yoshio

<120> Probe for visualizing protein interaction and method of analyzing  
protein-protein interaction using the same

<130> 2005\_1843A/JFW/00653

<140> PCT/US 10/557,992  
<141> 2005-11-22

<150> PCT/JP 2004/007245  
<151> 2004-05-20

<150> JP 2003-145466  
<151> 2003-05-22

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<170> PatentIn version 3.3

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<212> PRT  
<213> Renilla reniformis

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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr  
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Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser  
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile  
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val  
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly  
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp  
85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys  
100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His  
115 120 125

Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu  
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135 140

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Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu  
145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu  
165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg  
180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu  
195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro  
210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr  
225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu  
245 250 255

Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys  
260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln  
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Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln  
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<212> PRT  
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<213> Renilla reniformis

<400> 3

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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr  
1 5 10 15

Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser  
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile  
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val  
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly  
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp  
85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys  
100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Ala Leu Ala Phe His  
115 120 125

Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu  
130 135 140

Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu  
145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu  
165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg  
180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu  
195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro  
210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr  
225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu  
245 250 255

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Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys  
260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln  
275 280 285

Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln  
290 295 300

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Leu Glu

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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr  
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Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser  
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile  
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val  
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly  
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Cys Leu Ser Leu Ala  
85 90 95

Ser Asn Asn Gly Asn Gly Arg Asn Gly Ala Ser Leu Glu Thr Glu Glu  
100 105 110

Tyr Met Lys Met Asp Leu Gly Pro Gly Thr Arg Glu Gln Lys Leu Ile  
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Ser Glu Glu Asp Leu  
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1 5 10 15

Glu Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala  
20 25 30

Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly Gly  
35 40 45

Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr Gly Phe  
50 55 60

Ser Asp Pro Leu Thr Phe Asn Ser Val Val Glu Leu Ile Asn His Tyr  
65 70 75 80

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Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu Asp Val Lys Leu  
85 90 95

Leu Tyr Pro Val Ser Lys Tyr Gln Gln Pro Arg Gly Asn Asn Gly Gly  
100 105 110

Asn Asn Asp Val Met Ala Ile Ala Ala Asn Tyr Arg Leu Leu Asp His  
115 120 125

Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys Lys  
130 135 140

Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His Tyr  
145 150 155 160

Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu Ser  
165 170 175

Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu Glu  
180 185 190

Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu Glu  
195 200 205

Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg Lys  
210 215 220

Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu Lys  
225 230 235 240

Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro Leu  
245 250 255

Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr Asn  
260 265 270

Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu Ser  
275 280 285

Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys Phe  
290 295 300

Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln Glu  
305 310 315 320

Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser Phe Val Glu Arg  
325 330 335

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Val Leu Lys Asn Glu Gln Pro Arg Asp Tyr Lys Asp Asp Val Val Lys  
340 345 350